



Application No.: 10/715,066

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

O'BRIEN, ET AL.

Serial No.: 10/715,066

Filed: November 17, 2003

For: CA125 GENE AND ITS USE FOR  
DIAGNOSTIC AND THERAPEUTIC  
INTERVENTIONS

Attorney Docket No.: 022438.43867

TRANSMITTAL LETTER

Mail Stop: DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The following documents for the above-captioned application are enclosed herewith:

1. Information Disclosure Statement;
2. Information Disclosure Citation (PTO-1449);
3. Copies of References;
4. Return Postcard.

If you have any questions, please contact me.

Respectfully Submitted,

Butler, Snow, O'Mara, Stevens &  
Cannada, PLLC

1-30-04

Date

By:

*Susan B. Fentress*

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INFORMATION DISCLOSURE STATEMENT

Mail Stop: DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTS-A820. A copy of each of the references listed on the attached form is submitted herewith.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that it was considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art". If the Examiner applies the document as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law. Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

In the event the Examiner has any questions regarding this document, please contact the undersigned at the telephone number listed below.

Respectfully Submitted,

Butler, Snow, O'Mara, Stevens &  
Cannada, PLLC

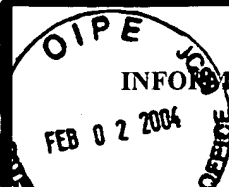
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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, on 1-30-04 in an envelope addressed to: Mail Stop: DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Lori L. Wood  
LORI L. WOOD

 <p style="text-align: center;"><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)</p>	<b>Docket Number (Optional)</b> 022438.43867	<b>Application Number</b> 10/715,066
	<b>Applicant(s)</b> O'Brien, et al.	
	<b>Filing Date</b> November 17, 2003	<b>Group Art Unit</b>

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AG	10/475,117	10/16/2003	O'Brien, et al.			10/16/2003
	AH	20030143667	07/31/2003	O'Brien, et al.	435/69.1	435/252.3	09/27/2001

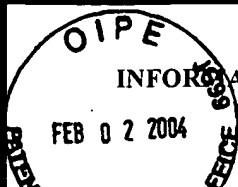
**FOREIGN PATENT DOCUMENTS**

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)


<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

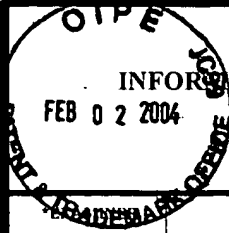
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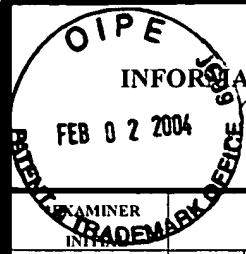
**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

AA	Base RC et al., "A Radioimmunoassay Using A Monoclonal Antibody To Monitor The Course of Epithelial Ovarian Cancer" N Engl J Med. 309:883-887 (1983)
BB	Bon GC et al. "Serum Tumor Marker Immunoassays In Gynecologic Oncology: Establishment of References Values" Am J Obstet. Gynecol. 174:107-114 (1996)
CC	Clemons-Miller, A et al. "Intrathecal Cytotoxic T-Cell Immunotherapy for Metastatic Leptomeningeal Melanoma" Clinical Cancer Research 7:917s-924s March 2001 (Suppl.)
DD	Desseyn JL et al. "Human Mucin Gene MUC5B, the 10.7-kb Large Central Exon Encodes Various Alternate Subdomains Resulting In A Super-Repeat. Structural Evidence for a 11p15.5 Gene Family" J Biol. Chem. 272(6):3168-3178 (1997)
EE	Fendrick JL et al. "Characterization of CA125 Synthesized By The Human Epithelial Amnion WISH Cell Line" Tumor Biol 1993; 14:310-318
FF	Fendrick JL et al. "CA125 Phosphorylation Is Associated With Its Secretion from the WISH Human Amnion Cell Line" Tumor Biol 1997; 18:278-289
GG	Foon, KA et al. "Are Solid Tumor Anti-Idotype Vaccines Ready for Prime Time?" Clinical Cancer Research 7:1112-1115 (2001)
HH	Gendler SJ et al. "Epithelial Mucin Genes" Annu. Rev. Physiol. 57:607-634 (1995)
II	Gum Jr., JR "Mucin Genes and the Proteins They Encode: Structure, Diversity and Regulation" Am J Respir. Cell Mol. Biol. 7:557-564 (1992)
JJ	Gum, JR "Human Mucin Glycoproteins: Varied Structures Predict Diverse Properties and Specific Functions" Biochemical Society Transactions 23(4):795-799 (1995)
KK	Hardardottir H et al. "Distribution of CA125 in Embryonic Tissue and Adult Derivatives of the Fetal Periderm" Am J Obstet. Gynecol. 163:6(1):1925-1931 (1990)
LL	Konish I et al. "Epidermal Growth Factor Enhances Secretion of the Ovarian Tumor-Associated Cancer Antigen CA125 From The Human Amnion WISH Cell Line" J Soc. Gynecol. Invest. 1:89-96 (1994)

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INITIAL			
	MM	Lloyd KO et al. "Synthesis and Secretion of the Ovarian Cancer Antigen CA125 by the Human Cancer Cell Line NIH: OVCAR-3" Tumor Biology 22, 77-82 (2001)	
	NN	Lloyd KO et al. "Isolation and Characterization of Ovarian Cancer Antigen CA125 Using A New Monoclonal Antibody (VK-8): Identification As A Ucin-Type Molecule" Int. J. Cancer, 71:842-850 (1997)	
	OO	Marshall E. "DNA Sequencing: Genome Teams Adjust To Shotgun Marriage" Science 292:1982-1983 (2001)	
	PP	NAP M. et al. "Immunohistochemical Characterization of 22 Monoclonal Antibodies Against The CA125 Antigen: 2nd Report From The ISOBM TD-1 Workshop" Tumor Biology 17:325-331 (1996)	
	QQ	Nustad K, et al. "CA125 - Epitopes and Molecular Size" Int. J of Biolog. Markers, 13(4)196-199 (1998)	
	RR	Nustad K, et al. "Specificity and Affinity of 26 Monoclonal Antibodies Against The CA125 Antigen: First Report From The ISOBM TD-1 Workshop" Tumor Biology 17:196-219 (1996)	
	SS	O'Brien, TJ et al. "CA125 Antigen In Human Amniotic Fluid and Fetal Membranes" Am J Obstet Gynecol 155:50-55 July, 1986	
	TT	O'Brien, TJ et al. "New Monoclonal Antibodies Identify The Glycoprotein Carrying the CA125 Epitope" Am J Obstet Gynecol 1991: 165-1857-64	
	UU	O'Brien, TJ et al. "More Than 15 Years of CA125: What Is Known About The Antigen, Its Structure and Its Function" The International Journal of Biological Markers 13:188-655-649 (1988)	
	VV	Quirk, JR, et al. "CA125 In Tissues and Amniotic Fluid During Pregnancy" Am J Obstet Gynecol 159:655-649 (1988)	
	WW	Santin, AD, et al. "In Vitro Induction of Tumor-Specific Human Lymphocyte Antigen Class I-Restricted CD8+Cytotoxic T Lymphocytes by Ovarian Tumor Antigen-Pulsed Autologous Dendritic Cells From Patients With Advanced Ovarian Cancer" Am J Obstet Gynecol 2000; 183:601-9	
	XX	Shigesmasa, K, et al. "P21: A Monitor of P53 Dysfunction in Ovarian Neoplasia" International Journal of Gynecologic Cancer 7:296-303 1997	
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	YY	Shigesmasa, K, et al. "PI6 Overexpression: A Potential Early Indicator of Transormation in Ovarian Carcinoma" J Soc Gynecol Invest 4:95-102 (1997)			
	ZZ	Verma, M et al. "Mucin Genes: Structure, Expression and Regulation" Glycoconjugate J. 11:172-179 (1994)			
	AB	Wagner, U. et al. "Immunological Responses to the Tumor-Associated Antigen CA125 in Patients With Advanced Ovarian Cancer Induced by the Murine Monoclonal Anti-Idiotypic Vaccine ACA125" HYBRIDOMA 16:33-40 (1997)			
	AC	Wagner, U. et al. "Immunological Consolidation of Ovarian Carcinoma Recurrences With Monoclonal Anti-Idiotypic Antibody ACA125: Immune Responses and Survival in Palliative Treatment" Clin. Cancer Res. 7:1112-1115 (2001)			
	AD	Williams, SJ et al. "MUC13, A Novel Human Cell Surface Mucin Expressed By Epithelial and Hemopoietic Cells" The Journal of Biological Chemistry 276(21):18327-18336 (2001)			
	AE	Yin, TWT et al. "Molecular Cloning of the CA125 Ovarian Cancer Antigen. Identification as a New Mucin (MUC16)" J Biol. Chem. 276:27371-27375 (2001)			
	AF	Zurawski, VR et al. "Tissue Distribution and Characteristics of the CA125 Antigen" Cancer Rev. 11-12:102-118 (1998)			
	AG	O'Brien, et al. "The CA125 Gene: An Extracellular Superstructure Dominated by Repeat Sequences" Tumor Biology, Vol. 22, 2001 pp. 348-366			
	AH	Argueso, et al. "MUC16 Mucin is Expressed by the Human Ocular Surface Epithelia and Carries the H185 Carbohydrate Epitope" Invest Ophthalmol Vis Sci 2003 Jun;44(6): 2487-95			
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